Mangosteen seeds belonging to the recalcitrant seeds which have a short lifespan due to drought prone and easily germinated seed storage place . It is necessary for the proper storage to maintain seed viability during storage . The study aims to assess the concentration of PEG - 6000 and the appropriate kinds of storage media to maintain seed quality mangosteen . This research was conducted at the Seed Technology Laboratory of the Department of Agro Technology Faculty of Agriculture, University of National Development " Veteran " Yogyakarta . The method used was completely randomized design (CRD) and a 3x3 factorial repeated 3 times . Factor I concentrations of PEG - 6000 consists of 3 levels ie 0 % , 15 % , and 30 % . Factor II kinds of storage media consists of 3 levels ie without storage media , storage media sawdust and rice husk storage media . The data were analyzed variability at 5% significance level , to know the difference between cedar followed by Duncan 's Multiple Range Test (DMRT) at 5% significance level . The results showed that the interaction parameter germination and speed of germination of seeds . Treatment concentration of 30 % PEG 6000 with sawdust storage media provide and speed germination of seeds germinated better . The use of PEG 6000 concentration of 15 % and 30 % were able to suppress the moldy seed , seed germination , and hit the high electrical conductivity values . Sawdust is the best storage media to maintain seed quality during storage mangosteen .